



ENFORCER Products, Inc.  
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1-888-805-HELP

## Material Safety Data Sheet AND SAFE HANDLING DISPOSAL INFORMATION

### Section 1. Chemical Product and Company Identification

**Product name** BBQ Grill & Microwave Cleaner

**Product Code** HD-BBQ-18

**Formula No.** F388

**Date of issue** 03/22/02 **Version** 1.00

**Emergency telephone number** For MSDS Information:  
Compliance Services, 404 352 1680

For a Medical Emergency: Toll Free  
INFOTRAC, 877 541 2016 (Calls Recorded)

For a Transportation Emergency: Toll Free  
CHEMTREC, 800 424 9300 (Calls Recorded)

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### Section 2. Composition, Information on Ingredients

Name of Hazardous Ingredients	CAS #	% by Weight	Exposure Limits
1) Ethylene glycol monobutyl ether	111-76-2	1-10	<b>OSHA (United States). Skin</b> TWA: 25 ppm <b>ACGIH (United States). Skin</b> TWA: 20 ppm
2) Isopropyl Alcohol	67-63-0	10-20	<b>ACGIH/OSHA (United States).</b> TWA: 400 mg/m <sup>3</sup> STEL: 500 ppm
3) Blend of Isobutane, Propane, and n-Butane		1-10	<b>ACGIH (United States).</b> TWA: 800 ppm

### Section 3. Hazards Identification

#### Acute Effects

**Routes of Entry** Absorbed through skin. Inhalation.

**Eyes** Slightly hazardous in case of eye contact (irritant).

**Skin** Slightly hazardous in case of skin contact (irritant). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

**Inhalation** Slightly hazardous in case of inhalation.

**Ingestion** Unlikely in this form.

**Chronic Effects** The substance may be toxic to blood, kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

**Carcinogenic Effects** Not available.

#### HMIS

<b>Health</b>	<b>2</b>
<b>Fire Hazard</b>	<b>0</b>
<b>Reactivity</b>	<b>0</b>
<b>Personal Protection</b>	<b>B</b>

See Toxicological Information (section 11)

### Section 4. First Aid Measures

**Eye Contact** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention if irritation occurs.

**Skin Contact** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

**Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

**Ingestion** Unlikely in this form.

### Section 5. Fire Fighting Measures

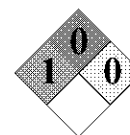
**Flash Point** Not applicable.

**Flammable Limits** Not applicable.

**Flammability** Non-flammable. (CSMA)

**Fire Hazard** Wear self-contained breathing apparatus.

**Fire-Fighting Procedures** Use DRY chemicals, CO<sub>2</sub>, alcohol foam or water spray.



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## Section 6. Accidental Release Measures

**Spill Clean up** Spills are unlikely in this form.

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## Section 7. Handling and Storage

**Handling** Do not ingest. Wash thoroughly after handling. Wash contaminated clothing before reusing.

**Storage** Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 48°C (120°F).

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## Section 8. Exposure Controls, Personal Protection

### Personal Protection

### Protective Clothing (Pictograms)

**Eyes** Safety glasses.  
**Body** Rubber gloves.  
**Respiratory** Avoid breathing vapors or spray mists. Use with adequate ventilation.



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## Section 9. Physical and Chemical Properties

<b>Physical State</b>	Liquid.	<b>Color</b>	Colorless.
<b>pH</b>	10.5 [Basic.]	<b>Odor</b>	Mild. Pleasant.
<b>Boiling Point</b>	185°C (365°F)	<b>Vapor Pressure</b>	Not determined.
<b>Specific Gravity</b>	1.1 (Water = 1)	<b>Vapor Density</b>	Not determined.
<b>VOC (Consumer)</b>	298 (g/l).	<b>Evaporation Rate</b>	1 compared to Water
<b>Solubility</b>	Easily soluble in cold water, hot water.		

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## Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility</b>	Slightly reactive to reactive with oxidizing agents.
<b>Hazardous Decomposition Products</b>	These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <sub>2</sub> ...), and other organic materials.
<b>Hazardous Polymerization</b>	Will not occur.

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## Section 11. Toxicological Information

**Toxicity to Animals** **Ethylene glycol monobutyl ether:**  
ORAL (LD50): Acute: 1746 mg/kg [Rat].  
**Isopropyl Alcohol:**  
ORAL (LD50): Acute: 5045 mg/kg [Rat].  
**Blend of Isobutane, Propane, and n-Butane**  
LD50: Not available.  
LC50: Not available.

**Chronic Effects on Humans** May cause damage to the following organs: blood, kidneys, liver.

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## Section 12. Ecological Information

**Ecotoxicity** Not available.  
**Biodegradable/OECD** Not available.

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## Section 13. Disposal Considerations

**Waste Information** Waste must be disposed of in accordance with federal, state and local environmental control regulations.  
**Waste Stream** Code: - (None.)  
Classification: - (Non-hazardous waste)

**Consult your local or regional authorities.**

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## Section 14. Transport Information

**Proper shipping name** Consumer Commodity  
**DOT Classification** ORM-D  
**UN number** Not available.

**TDG Classification** 2.2

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## Section 15. Regulatory Information

**U.S. Federal Regulations** SARA 313 toxic chemical notification and release reporting: Ethylene glycol monobutyl ether  
Clean Water Act (CWA) 311: No products were found.  
Clean air act (CAA) 112 regulated toxic substances: Ethylene glycol monobutyl ether

**State Regulations** California prop. 65: No products were found.

**WHMIS (Canada)** Class D-2B: Material causing other toxic effects (TOXIC).

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## **Section 16. Other Information**

*To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*